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					U.S. PATENT DOCUMENTS			
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GM		6,803,444 A2	10/12/04		Suzuki et al.	528	361	02/28/02
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GM	JP	2001-69968	03/21/01		Japan			Abstract
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GM		Joanne M. Curley of Substituents by Ps	et al., "Prod eudomona	luctions ole	on of Poly(3-hydroxyalkanoate ovorans" 29 <u>Macromol.</u> 1762-1	s) Cont 1766 (19	aining Aroi 96).	matic
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<sup>\*</sup>EXAMINER: Initial It reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with fiext communication to applicant.

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'EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
GM		6,645,743 B1	11/11/03	Honma et al.	435	146	
GM		2003/0207412 A1	11/06/03	Kenmoku et al.	435	135	
GM		5,004,664	04/02/91	Fuller et al.	430	106.6	 
GM		5,667,927	09/16/97	Kubota et al.	430	109	
GM		4,480,021	10/30/84	Lu et al.	430	106.6	
GM		4,442,189	04/10/84	Lu et al.	430	45	
GM		2003/0180899 A1	09/25/03	Honma et al.	435	135	
GM		6,586,562 B2	07/01/03	Honma et al.	528	361	***
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GM	JP	7-14352 B2	02/22/95	Japan	į		Abstract
GM	JP	8-19227 B2	02/28/96	Japan			Abstract
GM	JP	5-93049	04/16/93	Japan			Abstract
GM	JP	7-265065	10/17/95	Japan			Abstract
GM	wo	2004/097417 A1	11/11/04	International			
		OTHER	R DOCUMENT(S) (I	including Author, Title, Date, Pertinent Pages, Etc.)			
GM Suzette M. Aróstegui et al., "Bacterial Polyesters Produced by <i>Pseudomonas oleovorans</i> Containing Nitrophenyl Groups," 32 Macromol. 2889-95 (1999).							
GM	Helmut Ritter et al., "Bacterial Production of Polyesters Bearing Phenoxy Groups in the Side Chains, 1 Poly(3-Hydroxy-5-Phenoxypentanoate- co-3-Hydroxy-9-Phenoxy-Nonanoate) from Pseudomonas oleovorans," 195 Macromol. Chem. Phys. 1665-72 (1994).						
GM		Young Baek Kim et Grown with <i>ω</i> -Polyh	al., "Poly-3- nydroxyalkai	hydroxyalkanoates Produced from noates," 29 <u>Macromol.</u> 3432-35 (19	<i>Pseud</i> 96).	omonas o	leovorans
Obyoung Kim et al., "Bioengineering of Poly(β-hydroxyalkanoates) for Advanced Material Applications: Incorporation of Cyano and Nitrophenoxy Side Chain Substituents," 41 (Supp. 1) Cap. J. Microbiol. 32-43 (1995).							
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GM		6,649,381 B1	11/18/03	Honma et al.	435	135		
GM		2004/0067576 A1	04/08/04	Honma et al.	435	252.34		
GM		5,200,332	04/06/93	Yamane et al.	435	135		
GM		4,393,167	07/12/83	Holmes et al.	525	. 64	,	
GM		4,876,331	10/24/89	Doi	528	361	·	
GM		5,292,860	03/08/94	Shiotani et al.	528	361		
GM		5,135,859	08/04/92	Witholt et al.	435	135		
GM		5,334,698	08/02/94	Witholt et al.	528	354		
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GM	JP	9-191893	07/29/97	Japan			Abstract	
GM	JP	2642937 B2	05/02/97	Japan			Abstract	
GM	JP	2989175 B1	10/08/99	Japan			Abstract	
- GM	JP	6-289644	10/18/94	Japan			Abstract	
GM	JP	8-262796	10/11/96	Japan			Abstract	
		OTHER	R DOCUMENT(S	(Including Author, Title, Date, Pertinent Pages, Etc.)	)			
GM		Richard A. Gross et Thermal Properties International 205-1	, Second H	ophenoxy-Containing Microbal P armonic Generation and In-Vivo	olyesters: S Biodegrada	Structural bility," 39	Analysis, <u>Polymer</u>	

GM Lindsay H. Briggs et al., "Degradation of the Lanosterol Side-chain," J.C.S. Perkin I, 806-09

EXAMINER / Gennadiy Mesh/ DATE CONSIDERED 01/15/2007

Marianela Andújar et al., "Polyesters Produced by *Pseudomonas oleovorans* Containing Cyclohexyl Groups," 30 <u>Macromol.</u> 1611-15 (1997).

M.Y. Lee et al., "Hydrophilic Bacterial Polyesters Modified with Pendant Hydroxyl Groups," 41 Polymer 1703-09 (2000).

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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.) J.K. Stille et al., "Tetracyclic Dienes. I. The Diels-Alder Adduct of Norbornadiene and GM Cyclopentadiene," 81 J. Am. Chem. Soc. 4273-75 (August 1959). Henry J. Vogel et al., "Acetylorinithinase of Escherichia coli: Partial Purification and Some GM Properties," 218 J. Biol. Chem. 97-106 (1956). Harry R. Allcock et al., "Reactions of Steroid Salts with Hexachlorocyclotriphosphazene." 46 GM J. Org. Chem. 13-22 (1981).

02/19/88

GM

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Hideki Abe et al., "Biosynthesis from Gluconate of a Random Copolyester Consisting of 3hydroxybutyrate and Medium-Chain-Length 3-Hydroxyalkanoates by Pseudomonas sp. 61-3½" 16(3) Int. J. Biol. Macromol. 115-19 (June 1994).

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\*EXAMINER: Initial if Efference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Abstract** 

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GM	JP	63-88564	04/19/88		Japan				Abstract
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GM	2005/0143574 A1	06/30/05	Minami et al.	536	126	
GM	2006/0040366 A1	02/23/06	Kenmoku et al.	435	135	
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